

#### GENERAL NOTES:

This plan illustrates the method of attaching thrie beam guardrail to existing flared or retro-fit endposts.

Horizontal and vertical alignment of the guardrail in the area immediately adjacent to the connection shall be adjusted to a smoothly curved line with no abrupt changes.

The anchor bolts shall conform to requirements of ASTM F-1554M, Grade 55, threaded full length, and be galvanized. Threads may be chased after galvanizing. Washers shall conform to requirements of ASTM F-436M and be galvanized. Nuts shall conform to requirements of ASTM A-563M and be galvanized. These materials shall be galvanized in compliance with ASTM A-153M, Class C.

The price bid for "Guardrail, End Anchorages, Beam, RE-69" each shall be considered full compensation for furnishing all materials listed below and the construction of the end anchorage as detailed hereon.

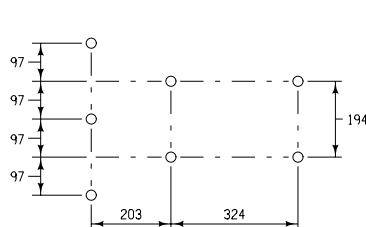
#### LIST OF MATERIALS FOR THE RE-69 END ANCHORAGE:

- (1)-RE-28 Type 'J' Terminal Connector.
- (7)-Approved 22 mm dia. x Sufficient length H.S. Hex Bolts.
- (7)-Approved 22 mm dia. H.S. Nuts.
- (14)-Approved Plain Washers, 24 mm dia. regular.

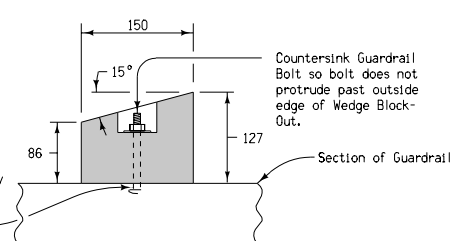
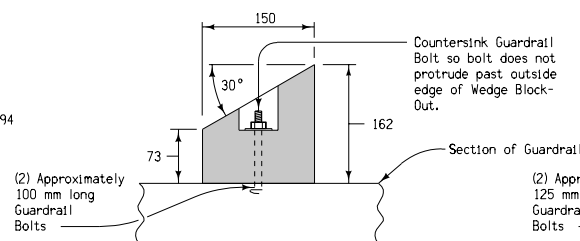
① First post shown on RE-68 is skipped. Only the wedge blockout is installed at this location.

② Wedge blockout may need to be field cut to fit various endposts.

For additional information see Standard Road Plans RE-2B and RE-68.



For RE-2B Type "J" Terminal Section



All dimensions given in millimeters unless noted.

METRIC VERSION	Iowa Department of Transportation Highway Division	<b>STANDARD ROAD PLAN RE-69C</b>	
		REVISION: Added note 2. Changed mounting height to 810.	REVISION NO. 1
		APPROVED BY <i>William J. Stem</i> DESIGN METHODS ENGINEER	REVISION DATE 10-29-02
		GUARDRAIL INSTALLATION CONNECTION TO FLARED BRIDGE ENDPOST OR CONCRETE BARRIER	